

PROJECT 10073 RECORD CARD

1. DATE 29 May 1963	2. LOCATION 30.50N 169.00W (PACIFIC)	12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon <input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft <input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
3. DATE-TIME GROUP Local _____ GMT 30/0741Z	4. TYPE OF OBSERVATION <input checked="" type="checkbox"/> Ground-Visual <input type="checkbox"/> Air-Visual <input type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Intercept Radar	5. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. SOURCE Military	7. LENGTH OF OBSERVATION 3 minutes	8. NUMBER OF OBJECTS one
9. COURSE Northwest	10. BRIEF SUMMARY OF SIGHTING MERINT rpt of UFO at high altitude. Obj initially sighted at 60 dgr azimuth 45 dgr elevation moving to 22 dgr azimuth 12 dgr elevation during three minute observation. Obj disappeared and reappeared twice during observation. Sky clear, no unusual WX conditions in area. Obj reached brightness of 2d magnitude star between periods of fading.	11. COMMENTS Echo crossed equator at 0733Z at 137.46W & would be low on horizon if visible to E. Duration rules out astro bodies. Possible a/c however descent fm 60 dgr elevation to 12 dgr elevation unusual. Sighting in area of Hawaiian Islands. Insufficient data for evaluation.

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH

UNCLASSIFIED MESSAGE

AF IN : 38880 (30 May 63) M/crp

~~INFO~~ ~~IN~~ ~~CO~~ ~~U~~ ~~IN~~ ~~G~~

Pg 1 of 2

INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, CMC-8, JCS-35,
DIA-25, DIA-CIIC-2, OSD-15, NSA-7, CIA-11 (123)

SMB A167

ZCHQA256ZCQJA902

OO RUEAHQ

DE RUHLKH 6

ZNR

O 300940Z

FM 326 AIR DIV KUNIA FACILITY HAWAII

TO RUHLKM/PACAF HICKAM AFB HAWAII

RUHPHH/COMHAWSEAFRON PEARL HARBOR HAWAII

INFO RUEAHQ/CSAF USAF WASH DC

RUECW/CNO WASH DC

RUECW/SECNAV WASH DC

RUWGALB/CINCNORAD ENT AFB COLO

RUHPA/CINCPAC CAMP H M SMITH HAWAII

RUHAFS/CINCSARPAC FT SHAFTER HAWAII

RUHPB/CINCPACFLT PEARL HARBOR HAWAII

RUUAUZ/COMUSJAPAN FUCHU AS JAPAN

RUAMC/COMUSKOREA SEOUL KOREA

RUAGFL/COMUSTDC TAIPEI TAIWAN

RUCSBR/CINCSAC OFFUTT AFB NEBR

AF GRNC

BT

UNCLAS.

OFFICE
SAFS
SAFUS
Dep RR
SAFMA
Dep MA
Dep FM
Dep TC
Dep SM
SAFFM
SAFRD
SAFMP
MP O
R ROTC
SAFAA
SAFGC
SAFOI
SAFIE
SAFLL
DSMG

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 38880 (30 May 63)

Pg 2 of 2

PAGE TWO RUHLKH 6

A. JANAP 146D

1. MERINT

2. LANSING

3. UFD

4. 30-5ON 169-00W

5. 300741Z

6. HIGH

7. UNDETERMINED

8. UNDETERMINED

9. INITIALLY SIGHTED BERING 060 POSIT ANGLE 45. FADED

BEARING 022 POSIT ANGLE 12 AFTER 3 MIN OF OBSERVATION.

OBJECT REACHED MAX BRIGHTNESS OF SECOND MAG STAR, FADED
AND REAPPEARED TWICE DURING 3 MIN PERIOD. SKY CLEAR AT
TIME OF OBS. NO UNUSUAL WEATHER CONDITIONS NOTED

10. SKY CLEAR

BT

30/0955Z MAY RUHLKH

NOTE: Adv copy to DIA, NIN and XOPX

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH

SMB 3124 AF IN : 38827 (30 May 63) S/ho PAGE 1 OF 2
ZCZCHQA245ZCECA184 UNCLASSIFIED MESSAGE
INFO : NIN-9, XOP-1, XOPX-4, SAF-OS-3, ARMY-2, NAVY-2,
..... YY RUEAHQ CMC-8, JCS-35, DIA-25, DIA-CIIC-2, OSD-15,
CIA-11, NSA-7 (125)

DE RUHPF B025

ZNR

Y 290901Z

FM COMBARPAC

TO RUHPHH/COMHAWSEAFRON

RUHLKM/CINCPACAF

RUUAUAH/HADD KUNIA

ZEN/CINCNORAD

INFO RUECW/CNO

RUEAHQ/COFS USAF

RUHPA/CINCPAC

RUHPB/CINCPACFLT

RUHAFS/CINCUSARPAC

RUHLKMP/PACAFBASECOM HICKAM

RUECW/SECNAV

NAVY GRNC

BT

UNCLAS.

A. JANAP 146D

1. MERINT

2. LANSING

3. UFO

4. 30-50N 169-00W

5. 300741Z

6. HIGH

7. UNDETERMINED

8. UNDETERMINED

OFFICE
SAFS
SAFUS
Dep RR
SAFMA
Dep MA
Dep PM
Dep TC
Dep SM
SAFNM
SAFRD
SAFMP
NP O
R ROTC
SAFAA
SAFGC
SAFOI
SAFIE
SAFLL
DSMNG

DEPARTMENT OF THE AIR FORCE
STAFF MESSAGE BRANCH
UNCLASSIFIED MESSAGE

INCOMING

AF IN : 38827 (30 May 63)

PAGE 2 OF 2

PAGE TWO RUHPF B025

9. INITIALLY SIGHTED BERING 060 POSIT ANGLE 45. FADED
BEARING 022 POSIT ANGLE 12 AFTER 3 MIN OF OBSERVATION.
OBJECT REACHED MAX BRIGHTNESS OF SECOND MAG STAR, FADED
AND REAPPEARED ~~TWICE~~ DURING 3 MIN PERIOD. SKY CLEAR AT
TIME OF OBS. NO UNUSUAL WEATHER CONDITIONS NOTED

10. SKY CLEAR

BT

29/0902Z

NOTE : ADVANCE COPIES DELIVERED TO NIN, XOPX AND DIA.

This case includes one (1) 8½" x 10"
photocopied page of narrative.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASSACHUSETTS

MAY 22, 1963

SATELLITE 1960 IOTA 1, EPOCH 1

These predictions are based on orbital elements revised on May 20, 1963.
 T_0 = May 21.0, times are in days, U.T.
 Argument of perigee = $285.919 + 3.7674 (t-T_0)$
 Right ascension of ascending node = $249.183 + 0.2827 (t-T_0)$

Inclination = 47.2076
 Eccentricity = $0.035255 + 6.34 \times 10^{-4} (t-T_0)$
 Semi-major axis = 7.846789 megameters
 Mean anomaly (Rev.) = $0.40536 + 12.48892 (t-T_0) + 3.857 \times 10^{-4} (t-T_0)^2$

SATELLITE 1960 IOTA 1
FOR OTHER LATITUDES

EQUATOR
S-N
TIME LONG. LAT. TIME LONG. HT. BEAR. TIME NORTH-SOUTH
LUTI (UT) CORR. (DEG) CORR. (DEG) (IN-E) CORR. (UT) LONG. HT. BEAR. (IN-E)

MAY 23, 1963

1 49.8	53.62	47.4	30.8	-82.19	1082	90.0+	30.8	-82.24	1082	90.0+	1 48.1	50.87	47.4	30.8	-82.22	1112	90.0+	30.7	-82.27	1112	90.0+
5 45.0	62.56	49.0	25.2	-60.49	1101	72.4+	36.3	-103.97	1048	107.6+	3 53.3	79.20	45.0	25.0	-60.52	1117	72.4+	36.2	-103.98	1069	107.6+
5 40.2	91.69	40.0	20.7	-45.26	1105	60.7+	40.7	-119.21	1012	119.3+	5 38.5	108.33	40.0	20.5	-45.31	1108	60.7+	40.7	-119.21	1059	119.3+
7 35.4	120.83	35.0	17.4	-35.68	1100	56.0+	43.9	-128.83	981	126.0	7 33.6	137.46	39.0	17.2	-35.73	1094	56.0+	43.0	-128.80	1032	126.0+
9 30.5	149.95	30.0	14.5	-26.40	1092	49.4+	46.0	-136.19	954	130.6	9 28.8	164.50	30.0	14.3	-26.45	1076	49.4+	45.8	-136.10	1005	130.6
11 25.7	178.10	28.0	9.3	-17.19	1067	43.6	51.5	-147.43	903	156.3	11 23.9	195.72	20.0	9.2	-17.23	1039	43.6	91.7	-167.36	963	136.3
13 20.9	208.23	0.	0.	0.	996	39.9	60.1	-164.79	817	160.0	13 19.1	224.85	0.	0.	0.	956	39.9	60.5	-166.68	857	140.8
15 16.1	237.37	-20.0	-9.0	17.27	910	43.7	-46.8	168.01	759	136.2	15 14.2	253.98	-20.0	-8.8	17.32	897	43.7	-44.2	148.76	776	134.2
17 11.2	265.50	-30.0	-13.8	28.58	863	49.5	-42.3	137.24	737	130.5	17 9.4	203.11	-30.0	-13.5	26.65	812	49.5	-41.7	137.39	766	130.5
19 6.4	295.64	-35.0	-16.4	35.93	839	54.1	-39.8	129.85	731	125.8+	19 4.5	312.23	-35.0	-16.1	36.01	789	54.1	-39.2	130.01	733	125.9+
21 1.6	324.77	-40.0	-19.4	45.59	813	60.8	-36.9	120.16	730	117.2+	20 59.7	341.36	-40.0	-19.0	45.69	767	60.8	-34.3	120.32	726	119.2+
22 56.5	353.91	-45.0	-23.4	60.45	792	72.5+	-33.1	104.78	735	107.5+	22 54.8	374.49	-45.0	-22.9	81.07	743	72.5+	-32.5	104.93	718	107.5+
		-47.4	-28.2	62.83	753	90.0+	-28.2	52.88	753	90.0+			-47.4	-27.7	82.97	724	90.0+	-27.7	83.02	724	90.0+

MAY 26, 1963

0 51.9	23.06	47.4	30.7	-82.19	1090	90.0+	30.8	-82.25	1090	90.0+	0 50.0	39.62	47.4	30.8	-82.24	1117	90.0+	30.6	-82.29	1117	90.0+
2 47.1	52.17	45.0	25.2	-60.49	1106	72.4+	36.3	-103.96	1058	107.6+	2 46.1	68.75	45.0	25.0	-60.54	1119	72.4+	36.2	-103.98	1098	107.6+
4 42.3	81.31	40.0	20.7	-45.27	1107	60.7+	40.7	-119.21	1023	119.3+	4 40.3	97.88	40.0	20.5	-45.32	1107	60.7+	40.7	-119.21	1070	119.3+
6 37.5	110.44	35.0	17.3	-35.69	1100	54.0+	43.4	-128.82	994	126.0	6 35.4	127.01	35.0	17.1	-35.79	1091	54.0+	44.0	-128.80	1049	126.0+
8 32.5	139.58	30.0	14.5	-26.41	1090	49.4+	46.7	-136.13	906	130.6	8 30.6	156.14	30.0	14.3	-26.46	1072	49.4+	46.0	-136.10	1018	130.6+
10 27.8	168.71	20.0	9.3	-17.18	1062	43.6	51.5	-147.41	914	138.3	10 25.7	185.27	20.0	9.2	-17.24	1031	43.7	91.8	-147.35	966	136.3
12 22.9	197.84	0.	0.	0.	988	39.9	60.2	-164.76	825	140.0	12 20.9	214.39	0.	0.	0.	938	39.9	60.6	-164.84	848	140.0
14 18.1	226.98	-20.0	-9.0	17.28	698	43.7	-46.8	148.65	759	136.2	14 16.0	243.52	-20.0	-8.8	17.33	844	43.8	-46.1	148.79	783	136.2
16 13.3	256.11	-30.0	-13.7	28.59	891	49.5	-42.1	137.28	730	130.5	16 11.2	272.69	-30.0	-13.6	28.67	789	48.5	-41.6	137.42	750	130.5
18 8.5	285.24	-35.0	-16.3	35.95	827	54.1	-39.6	129.89	731	125.8+	18 6.3	301.78	-35.0	-16.0	36.04	778	54.1+	-39.0	130.06	736	125.9+
20 3.6	314.38	-40.0	-19.3	45.61	802	60.8	-36.8	120.20	727	119.2+	20 1.5	330.98	-40.0	-18.9	45.72	757	60.8	-36.2	120.35	724	119.2+
22 58.5	344.51	-45.0	-23.3	60.98	772	72.5+	-32.9	104.82	730	107.5+	21 58.6	0.03	-45.0	-22.8	61.09	734	72.5+	-32.3	104.96	716	107.5+
23 54.0	373.64	-47.4	-28.1	62.87	745	90.0+	-28.1	62.92	745	90.0+	23 51.8	29.16	-47.4	-27.6	83.00	719	90.0+	-27.6	83.05	719	90.0+

MAY 27, 1963

1 49.1	41.78	47.4	30.7	-82.20	1098	90.0+	30.7	-82.25	1098	90.0+	1 48.0	58.29	47.4	30.5	-82.25	1122	90.0+	30.5	-82.30	1122	90.0+
3 44.3	70.91	45.0	25.1	-60.50	1111	72.4+	36.3	-103.96	1063	107.6+	3 42.1	87.42	45.0	24.9	-60.56	1120	72.4+	36.1	-104.00	1107	107.6+
5 39.5	100.04	40.0	20.5	-45.28	1108	60.7+	40.7	-119.21	1036	119.3+	5 37.2	114.54	40.0	20.4	-45.34	1104	60.7+	40.6	-119.22	1081	119.3+
7 34.8	129.18	35.0	17.3	-35.71	1099	54.0+	43.9	-128.81	1008	126.0	7 32.3	145.67	35.0	17.1	-35.77	1085	54.0+	43.9	-128.81	1056	126.0+
9 29.8	158.31	30.0	14.5	-28.42	1087	49.4+	46.7	-136.12	979	130.5	9 27.5	174.80	30.0	14.2	-28.48	1065	49.4+	46.8	-136.10	1031	130.6+
11 24.9	187.44	20.0	9.3	-17.21	1055	43.6	51.6	-147.39	927	136.3	11 22.6	203.93	20.0	9.1	-17.25	1020	43.7	51.8	-147.35	980	136.3
13 20.1	216.57	0.	0.	0.	975	39.9	60.5	-164.75	83												